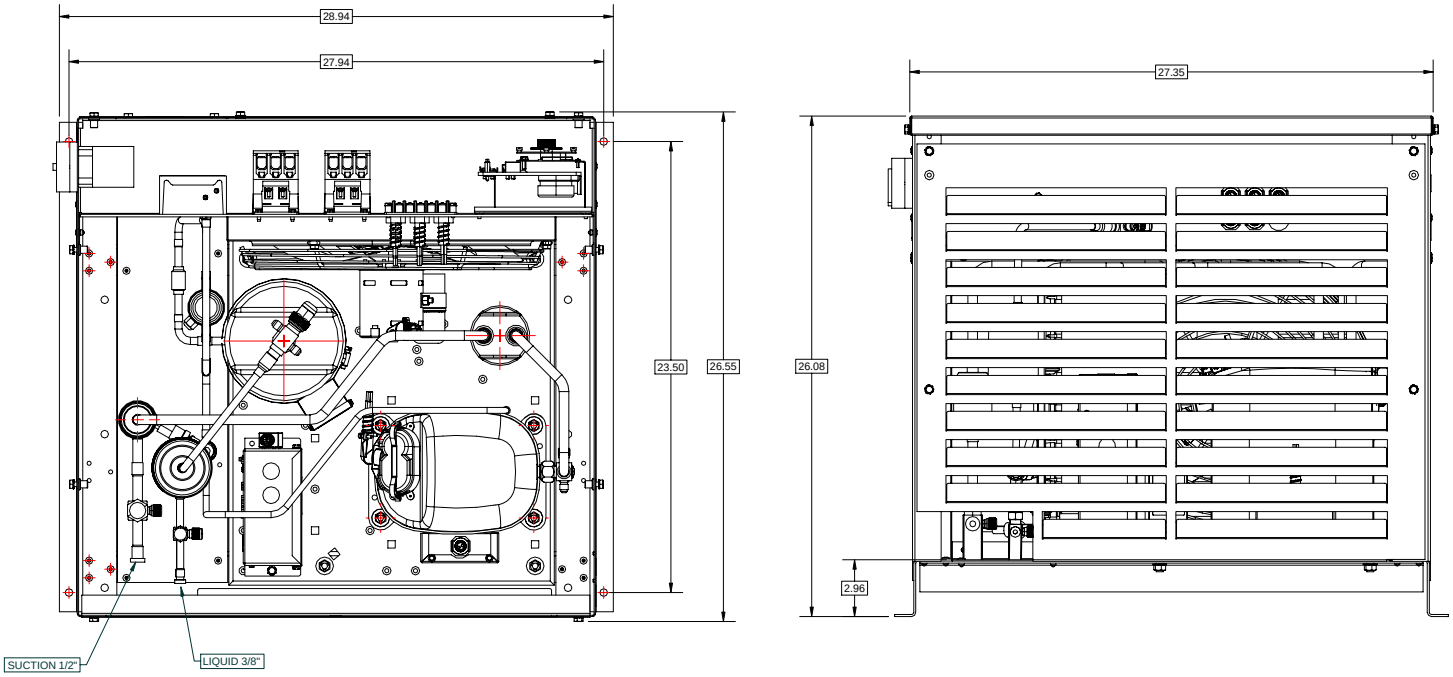
TECUMSEH OUTDOOR CONDENSING UNIT

Model	**AJA2423ZXDHS**
BOM	**32L511-2E***
Air Cooled	**1/2 HP**
Application	**Low Temp**
Refrigerant	**R404A**
Volts-Hz-Ph	**208-230/60/1**



AJA2423ZXDHS	Overall Dimensions, inch (mm)			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs. (kg)
	26.55 (674)	28.94 (735)	26.08 (662)	1/2"	3/8"	15.70 lbs	750	26.4	200 (91)

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures														
		85°F			90°F			95°F			100°F			110°F		
T, °F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-35	8.0	1100	500	89	1000	490	93	900	490	97	800	480	103	700	460	112
-30	10.7	1400	540	89	1300	530	93	1200	530	98	1100	520	103	900	510	113
-25	14.0	1700	580	90	1600	580	94	1500	580	99	1300	570	104	1100	560	114
-20	17.1	2000	620	91	1900	620	95	1800	620	100	1600	620	105	1400	610	115
-15	19.3	2400	670	91	2300	670	96	2100	670	101	2000	670	106	1700	670	116
-10	**24.5**	**2800**	**710**	**92**	**2600**	**710**	**97**	**2500**	**720**	**102**	**2300**	**720**	**107**	**2000**	**720**	**118**
-5	28.8	3200	760	93	3000	760	98	2900	770	103	2700	770	108	2300	780	119
0	33.5	3700	800	94	3500	810	99	3300	810	104	3100	820	109	2700	830	120
5	36.5	4200	850	96	3900	850	100	3700	860	105	3500	870	110	3100	890	121
10	43.7	4700	890	97	4400	900	101	4200	910	106	4000	920	111	3500	940	122

Performance @ 60 Hz, Return gas 40°F , SubCooling 5°F

PRELIMINARY DATA

***OPTION CODE:** See reverse side for Available Options

Parts/Specifications

STANDARD

Unit BOM	**32L511-2E**	Fan Motor	810F050C20
Unit MODEL	**AJA2423ZXDHS**	Replacement Fan Motor	50W230
		Fan Motor Qty	1
Refrigeration Range	-35°F to 10°F	Fan Motor RLA	0.7
Design Pressure Low / High	181 / 450	Fan Blade	51568-1
Volts - HZ - Ph	208-230V ~ 60HZ	Fan Guard	70831
Voltage Range	187 - 253	Shroud	70727-2
Min. Circuit Ampacity	5.20		
Max. Fuse Size	15	High Pressure Switch	84095-2L
		Low Pressure Control	84026-2
Compressor MODEL	AJA2419ZXD	Dual Pressure Conrol	
Compressor BOM	AJ303ET-336-P2		
Compressor LRA	34	Head Master Valve	70083
Compressor RLA	3.46	Check Valve	56626
		Process Valve	
OverLoad	8300MRTL62	Discharge Valve (Base)	56618
Replacement Kit - O/L	K90-09	Liquid Valve (Base)	56500-K06
Relay	820ARR3L26	Liquid Valve (Receiver)	31590
Replacement Kit - Relay		Suction Valve (Base)	56500-K08
Run Capacitor	85PR370E36	Suction Valve (Rotolock)	31582-3K
Run Capacitor Rating	15 MFD, 370 V		
Start Capacitor	85PS330D71	Condenser	50857-1
Start Capacitor Rating	161-193 MFD, 330 V	Receiver	51082-1K
Contactor	91014B	Accumulator	TK00014000
		Liquid Filter	70139
Unit Drawing	DGU1893-L112	Sight Glass	70084-S
Wiring Diagram	WD21-1T2	Suction Filter	704-20001
Wiring Diagram (A or F opt.)		CrankCase Heater	92123-1

AVAILABLE OPTIONS

32Lxxxx-2ER(F)ATnD

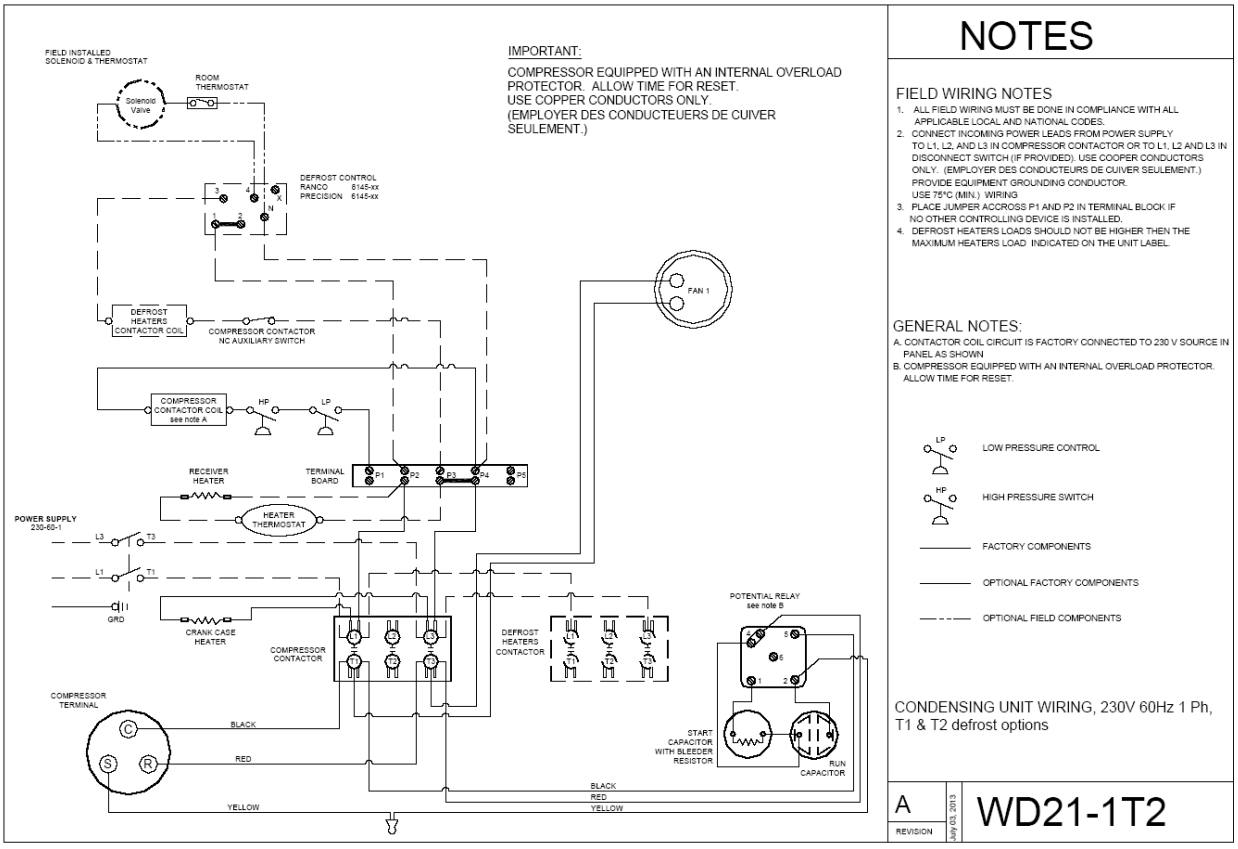
- R Heated/Insulated Receiver
- F Fixed Fan Control
- A Adjustable Fan Control
- T1 Air Defrost Timer
- T2 Electrical Defrost Timer & Defrost Heater Contactor
- D Disconnect Switch (nonfused)

AVAILABLE ACCESSORIES

Solenoid Valve (supplied loose)	KSVC-264
Hail Louver Assy	LLPG-101

REPLACEMENT PARTS

Receiver Heater (R option)	92124-2
Receiver Thermostat (R option)	84102-2
Fixed Fan Control (F option)	
Adjustable Fan Control (A option)	
Defrost Timer (T1 or T2 option)	84110
Defrost Heater Contactor and Auxiliary Switch (T2 opt.)	91014B and 91014-AUX
Disconnect (D option)	


FIELD INSTALLED SOLENOID & THERMOSTAT
ROOM THERMOSTAT
Solenoid Valve
DEFROST CONTROL
RANCO 8145-xx
PRECISION 6145-xx
DEFROST HEATERS CONTACTOR COIL
COMPRESSOR CONTACTOR NC AUXILIARY SWITCH
COMPRESSOR CONTACTOR COIL see note A
HP
LP
FAN 1
RECEIVER HEATER
TERMINAL BOARD
HEATER THERMOSTAT
POWER SUPPLY 230-60-1
GRD
CRANK CASE HEATER
COMPRESSOR CONTACTOR
DEFROST HEATERS CONTACTOR
POTENTIAL RELAY see note B
COMPRESSOR TERMINAL
START CAPACITOR WITH BLEEDER RESISTOR
RUN CAPACITOR
BLACK
RED
YELLOW
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
USE COPPER CONDUCTORS ONLY.
(EMPLOYER DES CONDUCTEUERS DE CUIVER SEULEMENT.)
NOTES
FIELD WIRING NOTES
1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. PLACE JUMPER ACCROSS P1 AND P2 IN TERMINAL BLOCK IF NO OTHER CONTROLLING DEVICE IS INSTALLED.
4. DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL.
GENERAL NOTES:
A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
LOW PRESSURE CONTROL
HIGH PRESSURE SWITCH
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
OPTIONAL FIELD COMPONENTS
CONDENSING UNIT WIRING, 230V 60Hz 1 Ph, T1 & T2 defrost options
A
REVISION
July 03, 2013
WD21-1T2